P22476.CLM

WHAT IS CLAIMED IS:

1. A method of end-to end data communications where data is transported via incompatible transmission formats in a transparent manner between a remote device and a host communication network using a wireless communications link, said remote device and said wireless communications link being connected to a mobile data controller, said host communication network and said wireless communications link being interfaced by a network interface device logically residing on said host communication network as a protocol-appropriate communications controller, said method comprising the steps of:

converting data to be transported between said remote device and said host communication network, said converting step converting said transported data between a remote device transmission format utilized by said remote device and one of a plurality of digital and analog wireless link transmission formats utilized by said wireless communications link;

transporting said transported data over said wireless communications link in accordance with said one of said wireless link transmission formats;

receiving said transport data from said wireless communications link;

converting said transported data between said one of said wireless link transmission formats and a network interface format utilized by said network interface device, said one of said wireless link transmission formats and said host network format being incompatible;

further converting said transported data between said network interface format and a host network format utilized by said host communication network; and

forwarding said transported data to said host communication network in accordance with said host network format.